

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PA/ST

REGION VI SITE NUMBER (to be assigned by HQ) TX 00795

GENERAL INSTRUCTIONS: Complete Sections I and II through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION TYD 080 268170

A. SITE NAME PPG Industries, Technical Center		B. STREET (or other identifier) Buddy Lawrence Drive	
C. CITY Corpus Christi	D. STATE TX	E. ZIP CODE 78408	F. COUNTY NAME Nueces
G. SITE OPERATOR INFORMATION 1. NAME PPG Industries, Inc.		2. TELEPHONE NUMBER 412/434-2872	
3. STREET PPG Place,	4. CITY Pittsburg	5. STATE PA	6. ZIP CODE 15272
H. REALTY OWNER INFORMATION (if different from operator of site) 1. NAME Same		2. TELEPHONE NUMBER	
3. CITY	4. STATE	5. ZIP CODE	

I. SITE DESCRIPTION
Technical Center and Pilot Plant operation

J. TYPE OF OWNERSHIP
☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day & yr.)	B. APPARENT SERIOUSNESS OF PROBLEM <input type="checkbox"/> 1. GH <input type="checkbox"/> 2. MEDIUM <input type="checkbox"/> 3. LOW <input checked="" type="checkbox"/> 4. NONE	
C. PREPARER INFORMATION 1. NAME James E. Fendley	2. TELEPHONE NUMBER 512/328-0081	3. DATE (mo., day, & yr.) 6-19-84

III. INSPECTION INFORMATION 4/22/85

A. PRINCIPAL INSPECTOR INFORMATION 1. NAME James E. Fendley	2. TITLE Staff Engineer
3. ORGANIZATION Underground Resource Management, Inc.	4. TELEPHONE NO. (area code & no.) 512/328-0081

B. INSPECTION PARTICIPANTS		
1. NAME	2. ORGANIZATION	3. TELEPHONE NO.

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)		
1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Jerome W. Osheka	Environmental Engineer 412/434-2872	PPG Place, Pittsburg, Pennsylvania
John McCarty	Maintenance Coordinator 512/887-4576	P. O. Box 4026, Corpus Christi, Texas

SUPERFUND FILE		
JUN 17 1992		
REORGANIZED		

Reviewed by GAW-SC
date 4/22/85
date 4/22/85

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (source of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
PPG, Corpus Christi	same	same	Solid, liquid

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Chem Waste Mgmt.		Corpus Christi, TX	Solid, liquid
Rollin		Deer Park, TX	Solid, liquid
BFI		Willow Springs, TX	Solid, liquid

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
Same as III E		

G. DATE OF INSPECTION

(mo., day, & yr.)
3-28-84

H. TIME OF INSPECTION

0900 hrs.

I. ACCESS GAINED BY: (credentials must be shown in all cases)



1. PERMISSION



2. WARRANT

J. WEATHER (describe)

Clear, fair

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE	X	Engineering Science, no test, analysis done	
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL	X	Engineering Science	
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., α -activity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
	None	

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS

☒ a. GROUND ☐ b. AERIAL

2. PHOTOS IN CUSTODY OF:

Attached

D. ARE MAPS?

☒ YES. SPECIFY LOCATION OF MAPS.

State and Company files

E. COORDINATES

1. LATITUDE (deg.-min.-sec.)

27° 48' 49"

2. LONGITUDE (deg.-min.-sec.)

97° 25' 47"

V. SITE INFORMATION

A. SITE STATUS

☐ 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)☒ 2. INACTIVE (Those sites which no longer receive wastes.)☐ 3. OTHER (specify):
(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

☐ 1. NO☒ 2. YES (specify generator's four-digit SIC Code): 2812; 2869

C. AREA OF SITE (in acres)

50 acres

D. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO☒ 2. YES (specify):

Laboratory, offices, warehouses

VI. CHARACTERIZATION OF SITE ACTIVITY Inactive

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

<input checked="" type="checkbox"/> A. TRANSPORTER	<input checked="" type="checkbox"/> B. STORER	<input checked="" type="checkbox"/> C. TREATER	<input checked="" type="checkbox"/> D. DISPOSER
1. RAIL	1. PILE	1. FILTRATION	<input checked="" type="checkbox"/> 1. LANDFILL
2. SHIP	<input checked="" type="checkbox"/> 2. SURFACE IMPOUNDMENT	2. INCINERATION	2. LANDFARM
3. BARGE	<input checked="" type="checkbox"/> 3. DRUMS	3. VOLUME REDUCTION	3. OPEN DUMP
4. TRUCK	4. TANK, ABOVE GROUND	4. RECYCLING/RECOVERY	4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	<input checked="" type="checkbox"/> 5. CHEM./PHYS./TREATMENT	5. MIDNIGHT DUMPING
6. OTHER (specify):	6. OTHER (specify):	6. BIOLOGICAL TREATMENT	6. INCINERATION
		7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify):
		9. OTHER (specify):	

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this form.

☒ 1. STORAGE ☐ 2. INCINERATION ☒ 3. LANDFILL ☒ 4. SURFACE IMPOUNDMENT ☐ 5. DEEP WELL

☐ 6. CHEM/BIO/PHYS TREATMENT ☐ 7. LANDFARM ☐ 8. OPEN DUMP ☐ 9. TRANSPORTER ☐ 10. RECYCLER/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

☒ 1. LIQUID ☒ 2. SOLID ☐ 3. SLUDGE ☐ 4. GAS

B. WASTE CHARACTERISTICS

☒ 1. CORROSIVE ☐ 2. IGNITABLE ☐ 3. RADIOACTIVE ☐ 4. HIGHLY VOLATILE

☒ 5. TOXIC ☒ 6. REACTIVE ☐ 7. INERT ☐ 8. FLAMMABLE

☐ 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Yes, waste manifests and inventories

VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE
Unknown		None		Unknown		Unknown		None		Unknown	
(1) PAINT, PIGMENTS		(1) OILY WASTES		(1) HALOGENATED SOLVENTS		(1) ACIDS		(1) FLYASH		(1) ASSOCIATED SUBSTANCE	
(2) METALS SLUDGES		(2) OTHER (specify):		(2) NON-HALOGENATED SOLVENTS		(2) PICKLING SLUDGES		(2) ASBESTOS		(2) WASTE TAILINGS	
(3) POTW				(3) OTHER (specify):		(3) CAUSTICS		(3) MILLING/MINE TAILINGS		(3) RADIOACTIVE	
(4) ALUMINUM SLUDGE						(4) PESTICIDES		(4) FERROUS SMELTING WASTES		(4) MUNICIPAL	
X (5) OTHER (specify):						(5) DYES/INKS		(5) NON-FERROUS SMELTING WASTES		(5) OTHER (specify):	
Asbestos Slurry						(6) CYANIDE		(6) OTHER (specify):			
						(7) PHENOLS					
						(8) HALOGENS					
						(9) PCB					
						X (10) METALS					
						(11) OTHER (specify):					

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard):

1. SUBSTANCE	2. FORM (mark 'X')				3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAP.	d. DUST	a. HIGH	b. MED.	c. LOW	d. NONE			
Lead	X				X				7439-92-1	Unknown	
Mercury	X				X				7439-92-6	Unknown	
Cadmium	X				X				7440-43-9	Unknown	

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

A. HUMAN HEALTH HAZARDS

Hazardous materials were handled under laboratory and pilot plant conditions, so no discernible hazard exists.

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE

None

☐ C. WORKER INJURY/EXPOSURE

None

☐ D. CONTAMINATION OF WATER SUPPLY

None

☐ E. CONTAMINATION OF FOOD CHAIN

None

☐ F. CONTAMINATION OF GROUND WATER

None

☐ G. CONTAMINATION OF SURFACE WATER

None

VII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA

None

☐ I. FISH KILL

None

☐ J. CONTAMINATION OF AIR

None

☐ K. NOTICEABLE ODORS

None

☐ L. CONTAMINATION OF SOIL

None

☐ M. PROPERTY DAMAGE

None

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

None

☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

None

☐ P. SEWER, STORM DRAIN PROBLEMS

None

☐ Q. EROSION PROBLEMS

None

☐ R. INADEQUATE SECURITY

None

☐ S. INCOMPATIBLE WASTES

None

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

None

☐ U. OTHER (specify):

None

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	1,200	1,200	400	1-2 miles
2. IN COMMERCIAL OR INDUSTRIAL AREAS	900	900	20	< 1 mile
3. IN PUBLICLY TRAVELLED AREAS	32,000	32,000	0	< 1 mile
4. PUBLIC USE AREAS (parks, schools, etc.)	1,680	1,680	3	1-2 miles

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit): 0-20 Feet	B. DIRECTION OF FLOW Northeast	C. GROUNDWATER USE IN VICINITY None
D. POTENTIAL YIELD OF AQUIFER Unknown	E. DISTANCE TO DRINKING WATER CISTERN (specify unit of measure) 35 Miles	F. DIRECTION TO DRINKING WATER SUPPLY North-Northwest
G. TYPE OF DRINKING WATER SUPPLY		
<input type="checkbox"/> 1. NON-COMMUNITY CIST CONNECTIONS	<input checked="" type="checkbox"/> 2. COMMUNITY (specify town): <u>Corpus Christi</u>	
<input checked="" type="checkbox"/> 3. SURFACE WATER	<input type="checkbox"/> 4. WELL	

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
		None		

I. RECEIVING WATER

1. NAME

Industrial Canal

☐ 2. SEWERS☒ 2. STREAMS/RIVERS☐ 4. LAKES/RESERVOIRS☐ 5. OTHER (specify):

5. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Segment 2484 of the Nueces Estuary is classified suitable for non-contact recreation and propagation of fish and wildlife.

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

☒ A. KNOWN FAULT ZONE☐ B. KARST ZONE☐ C. 100 YEAR FLOOD PLAIN☐ D. WETLAND

Growth faults

☐ E. A REGULATED FLOODWAY☐ F. CRITICAL HABITAT☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. OVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
X					
X	1. SAND				
X	2. CLAY				
	3. GRAVEL				

XIII. SOIL PERMEABILITY

☐ A. UNKNOWN☐ B. VERY HIGH (100,000 to 1000 cm/sec.)☐ C. HIGH (1000 to 10 cm/sec.)☐ D. MODERATE (10 to .1 cm/sec.)☐ E. LOW (.1 to .001 cm/sec.)☒ F. VERY LOW (.001 to .00001 cm/sec.)

3. RECHARGE AREA

☐ 1. YES☒ 2. NO

3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES☒ 2. NO

3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

0-1%

Northeast, good condition

J. OTHER GEOLOGICAL DATA

None

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UNKNOWN
NPDES	EPA	TX0004685	10/16/84	10/15/89	X		
Hazardous Waste	TDWR	HW-50013	3/12/81	3/12/91	X		
Wastewater	TDWR	00349	2/22/83	2/22/88	X		
Solid Waste Reg.	TDWR	30031	11/2/81	None	X		

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE ☒ YES (summarize in this space)

- Storage containers not dated: Warning, 2-19-81
- Lack of inspection log: Fine, 5-27-81
- Lack of training records: Fine, 5-27-81
- Lack of contingency plans at facility: Fine, 5-27-81

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

RCRA 3012 SITE INSPECTION COMMENTS

PPG Industries, Technical Center

Corpus Christi, Texas

TX 00795

Underground Resource Management, Inc. (URM) of Austin, Texas, represented by James Fendley conducted a site inspection at the PPG Industries, Technical Center in Corpus Christi, Texas on March 28, 1984. Present at the inspection from PPG were:

- Jerome W. Osheka, Environmental Engineer.
- John McCarty, Maintenance Coordinator.

The purpose of the inspection was to collect information at the site where hazardous wastes had been stored or disposed of in a now inactive waste management facility.

The PPG Technical Center was constructed as a research facility and a chromium processing facility. The research facility conducted laboratory scale and pilot plant operations to develop processes for use at other production facilities. As such, wastes generated were of small volume and were disposed of off-site, with the exception of slaker sand which was landfilled on-site. The wastes to be disposed of offsite were stored in 55-gallon poly-lined drums on a 6-inch thick asphalt pad. This storage area was secured by an 8-foot high chain link fence and showed no evidence of leakage or spills. The slaker sand landfill was a well contoured zone and had been previous analysed, showing no evidence of hazardous contamination. Wastewater from the plant was processed in-house and stored prior to discharge in a surge basin. Analysis of sediment from this basin showed slightly elevated lead, mercury, and cadmium concentrations. The entire research facility was closed in

November, 1982, under the attached closure plan. This plan was approved by the TDWR on March 10, 1983, and the drum storage area was subsequently closed in accordance with the plan. The chromium facility was sold in 1979 to American Chrome and Chemical (ACC), and as such did not fall within the bounds of this inspection. It should be noted, however, that information contained within the State files indicate significant seepage from the chromate ponds now operated by ACC. This facility was identified as a dual notifier under the RCRA and CERCLA acts and is presently included in the ERRIS listing under HAZIT No. TX04499.

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Based upon information obtained during the site inspection and from State records, no further action is recommended under the RCRA 3012 Program.

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain
as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE

☒ YES ☐ NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE

☐ YES ☒ NO

3. EVIDENCE OF LEAKAGE/OVERFLOW (If "Yes", document where and how much runoff is overflowing or leaking from containment)

☐ YES ☒ NO

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS

None - Site Closed

5. GLASS OR PLASTIC STORAGE CONTAINERS USED

☐ YES ☒ NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS

None

7. NOTE LABELING ON CONTAINERS

None - Site Closed

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS (If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)

☐ YES ☒ NO

9. DIRECT VENTING OF STORAGE TANKS

☐ YES ☐ NO Closed

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES (If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)

☐ YES ☒ NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY (If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)

☐ YES ☒ NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES

☒ YES ☐ NO

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS

☒ YES ☐ NO

LANDFILLS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain
as Necessary.

1. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.)

☐ YES ☒ NO

2. EVIDENCE OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMISOLIDS AND SLUDGES INTO THE LANDFILL

☐ YES ☒ NO

3. CHECK RECORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK

☐ YES ☒ NO Closed as single site

4. WASTES SURROUNDED BY SORBENT MATERIAL

☐ YES ☒ NO

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED

☐ YES ☐ NO None

6. EVIDENCE OF PONDING OF WATER ON SITE

☐ YES ☒ NO

7. EVIDENCE OF IMPROPER/INADEQUATE DRAINING

☐ YES ☒ NO

8. ADEQUATE LEACHATE COLLECTION SYSTEM (If "Yes", specify Type)

☐ YES ☒ NO

9a. SURFACE LEACHATE SPRING

☐ YES ☒ NO

9. RECORDS OF LEACHATE ANALYSIS

☒ YES ☐ NO

10. GAS MONITORING

☐ YES ☐ NO

11. GROUNDWATER MONITORING WELLS

☐ YES ☐ NO

12. ARTIFICIAL MEMBRANE LINER INSTALLED

☐ YES ☒ NO

13. SPECIFIC CONTAINMENT MEASURES (Clay Bottom, Sidewalls)

☐ YES ☒ NO

14. FIXATION (Stabilization) OF WASTE

☐ YES ☒ NO

15. ADEQUATE CLOSURE OF INACTIVE PORTION OF FACILITY

☒ YES ☐ NO

16. COVER (Type)

None, contoured site with slacker sand.

16a. THICKNESS

16b. PERMEABILITY

16c. DAILY APPLICATION

☐ YES ☒ NO

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain
as Necessary.

1. TYPE OF IMPOUNDMENT

Wastewater pond

2. STABILITY/CONDITION OF EMBANKMENTS

Good

3. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.)

☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE

☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT

☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT

☐ YES ☒ NO

7. IMPOUNDMENT HAS LINER SYSTEM

☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED

☐ YES ☐ NO

7b. FINDINGS

8. SOIL STRUCTURE AND SUBSTRUCTURE

Interdistributary clay and Sand

9. MONITORING WELLS

☐ YES ☒ NO

10. LENGTH, WIDTH, AND DEPTH

LENGTH 150 feet WIDTH 50 feet DEPTH 5 feet

11. CALCULATED VOLUMETRIC CAPACITY

37,500 feet³

12. PERCENT OF CAPACITY REMAINING

empty, closed

13. ESTIMATE FREEBOARD

empty, closed

14. SOLIDS DEPOSITION

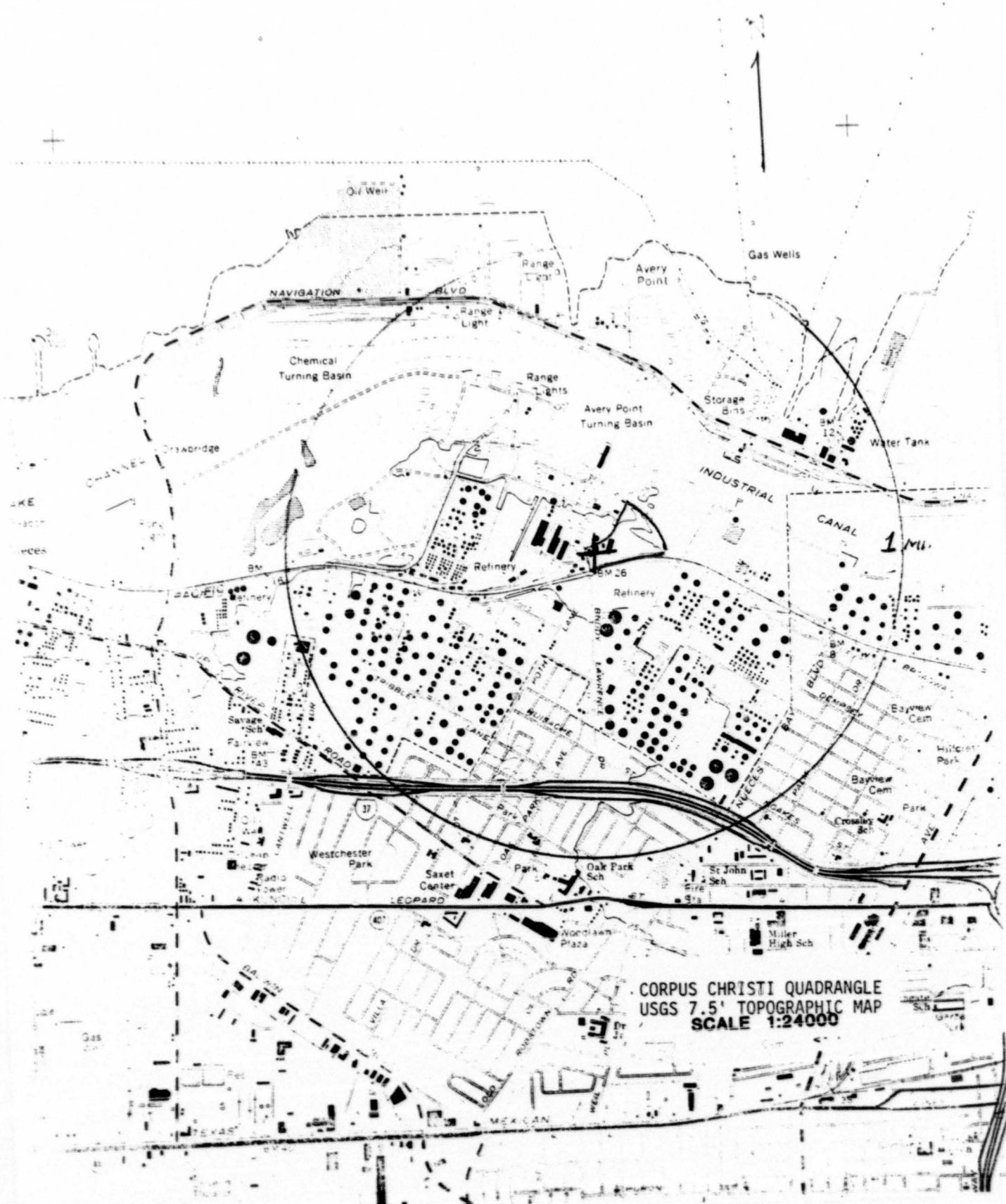
☐ YES ☒ NO

15. DREDGING DISPOSAL METHOD

None

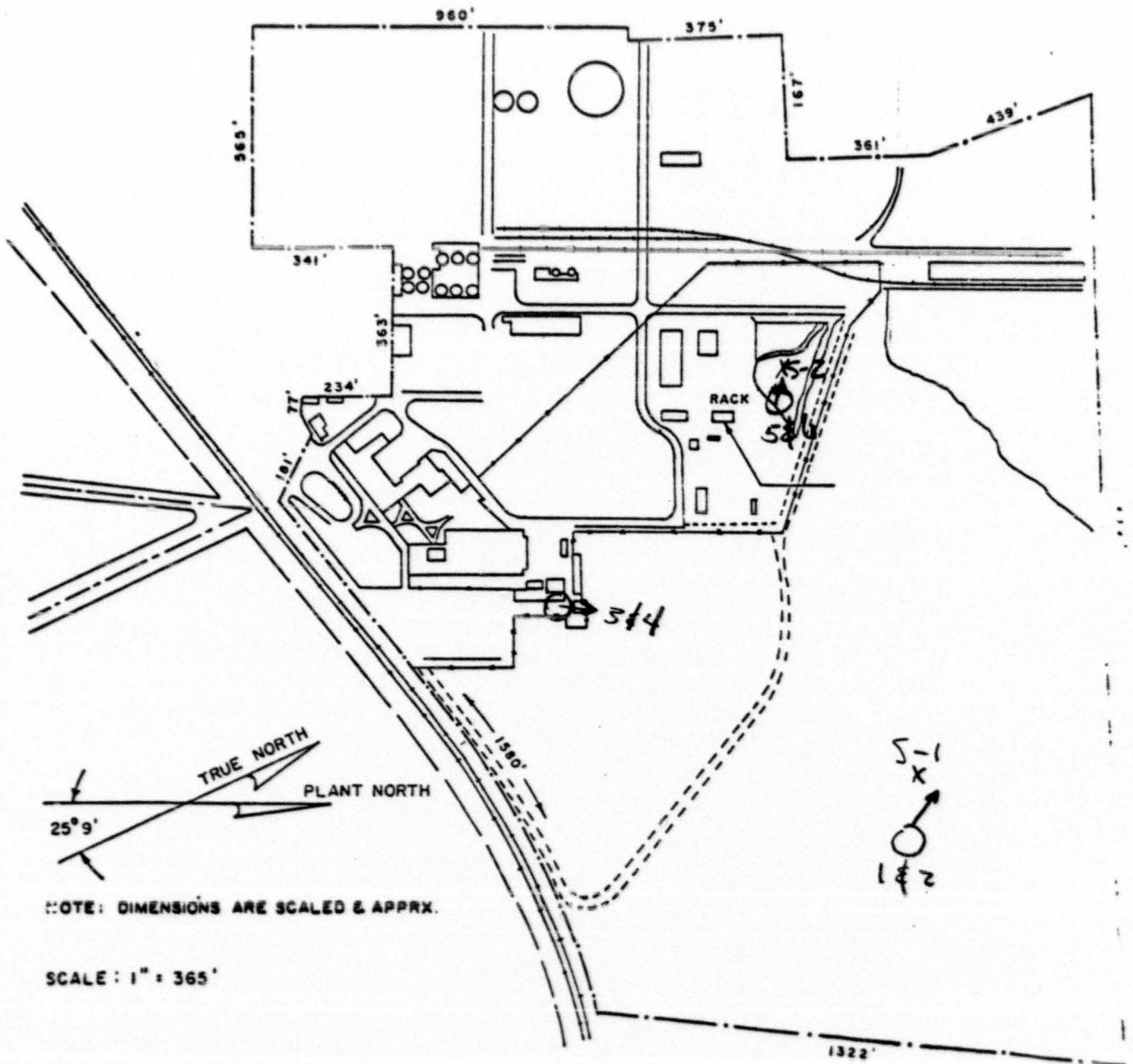
16. OTHER EQUIPMENT

None



CORPUS CHRISTI QUADRANGLE
USGS 7.5' TOPOGRAPHIC MAP
SCALE 1:24000

PPG Properties - Corpus Christi, Texas



CLOSURE PLAN

The following plan is developed to meet the requirements of CFR 40 part 265 subparts G and H relating to closure and financial requirements under Interim Status Standards for Owners and Operators of Hazardous Waste Treatment and Disposal Facilities. This plan is specific to PPG Industries Corpus Christi Technical Center (CCTC) Hazardous Waste Drum Storage (HWDS) area, for which application was made November 18, 1980 with EPA for interim status as a hazardous waste treatment/storage/disposal facility basis storage of on-site generated hazardous wastes prior to shipment for disposal and treatment facility for disposition of sodium azide. The sodium azide treatment process was shutdown and dismantled in November 1980. This leaves only the HWDS area for which this plan is applicable. PPG Industries is located at the end of Lawrence Drive in Corpus Christi, Texas, Nueces County.

All of the waste stored in the above facility is generated on-site; no off-site waste is accepted or stored in this facility. When and if circumstances require the ultimate closing of this storage area, the following steps will be taken to insure minimization of need for further maintenance and elimination of post closure escape of hazardous wastes.

For 265.112(a)(1)

No partial closing is anticipated. Upon complete closure all drums accumulated to that date will be sampled and classified according to PPG's analysis plan on file per RCRA requirement, labeled and transported off-site for disposal, preferably via incineration. Shipment off-site will be made prior to final closure date. The anticipated final TSDF approved disposition site is Rollins Environmental Service, Deer Park, Texas which is approximately 220 miles from the PPG site specified. Parts 265.197, 265.228, 265.280, 265.310, 265.351, 265.381 and 265.404 do not apply to "storage" facilities.

CLOSURE PLAN

For 265.112(a)(2)

All hazardous waste generated in 1980 was stored in the HWDS Area. Apparent quantity generated and stored for the year 1980 was 21 drums (55 gal). Therefore assuming this to be a typical year "maximum inventory" is anticipated at 27 drums, assuming a possible 6 drum hold over from a previous year. However typical inventory is expected to be 6 drums.

For 265.112(a)(3)

Other than the drums specified there is no other "facility equipment." No decontamination of equipment is expected or necessary. However any empty drums present in the HWDS area will be disposed of as required by the prevailing RCRA regulation regarding empty drum disposition.

For 265.112(a)(4) and 265.113(a)and(b)

As stated, all hazardous wastes stored in this facility are generated on-site; no wastes are received from off-site sources. Therefore, although closure is not anticipated at this time or any future time, waste accumulation will cease 90 days prior to final closure of the facility. Final disposition as specified for 265.112(a)(1) will be within 90 days after ceasing of accumulation but prior to final closure.

For 265.112(b)

This plan will be updated during the active life of this storage facility when operating plans or facility design affect this closure plan. Amendments to this plan will be made within 60 days of the changes affecting this plan.

For 265.112(c)

This plan will be submitted for modification, approval or, disapproval to the EPA Regional Administrator and/or Texas Department of Water Resources Regional Director within 30 days after the accumulation (and thus reception) of the final volume of waste. This plan will also be submitted, to the above, 15 days after termination of interim status or an order under section 3008

of RCRA that the facility close.

The following is included as part of the closure plan to meet the requirements of CFR 40 part 265 Subpart H, Financial Requirements. As 265.140(a) applies, the following were taken into account to develop a simple cost estimate for the PPG HWDS facility.

For 265.142(a)

This estimate will reflect the cost of closure at a point in the facility operating life when extent and manner would make closure most expensive. Therefore dollar figures reflect the most pessimistic case as indicated by the closure plan in 265.112(a).

For 265.142(b)

A new closure estimate will be prepared whenever a change in the closure plan affects the cost of closure.

For 265.142(c)

This closure cost estimate will be adjusted annually, on the effective date of these regulations, using an inflation factor derived from the annual Implicit Price Deflator for Gross National Product as published by the U.S. Department of Commerce in its Survey of Current Business. However, the closure cost estimate may be adjusted downward if experience proves a considerable reduction of inventory, under that assumed in the previous cost estimate, is the more normal use. New technology or development of less expensive methods of handling or disposing of hazardous waste, if and when EPA approved, would also be a legitimate reason for a downward revision of the closure cost estimate.

When closure is complete PPG Industries will submit to the Regional Administrator and/or the Texas Department of Water Resources Regional Director certification both by PPG and an independent registered professional engineer that the facility has been closed according to the specifications in the approved plan.

Drafted Thomas Allen Slack Date 3-18-81
Environmental Control Specialist

Approved Colonel B. D. Dineen Date 3-18-81
Chief Environmental Officer

Approved William H. Kelly Date 3-30-81
Manager Corpus Christi Technical Center

Approved _____ Date _____
Environmental Affairs G.O.

ENGINEERING—SCIENCE, INC.

924 GEMINI BOULEVARD, HOUSTON, TEXAS 77058 (713) 488-3004

LABORATORY RESULTS

URM
508 Powell Street
Austin, Texas 78703

Attn: James Fendley

ES PROJECT NO. 8073.99

DATE SAMPLE RECEIVED 4-03-84

DATE DATA TRANSMITTED 4-25-84

CLIENT JOB REFERENCE TX 00795 (PPG)

ES SAMPLE NUMBER	CLIENT IDENTIFICATION	As ug/g	Ba ug/g	Cd ug/g	Cr ug/g	Pb ug/g	Mn ug/g	Hg ug/g	Se ug/g
4968	¹ Surge Basin	4.1	400	3.8	37	141	134	1.6	< 0.5
		✓	high	high	✓	high	✓	high	✓

¹Results reported on a dry weight basis



APPROVED FOR TRANSMITTAL

Steve Beck
LABORATORY MANAGER

ABBREVIATIONS

Acid	Acidity (as Calcium Carbonate)	Mn	Manganese
Ag	Silver	Mo	Molybdenum
Al	Aluminum	Na	Sodium
Alk	Alkalinity (as Calcium Carbonate)	NH ₃ -N	Ammonia (as Nitrogen)
As	Arsenic	Ni	Nickel
Au	Gold	NO ₃ -N	Nitrate (as Nitrogen)
B	Boron	NO ₂ -N	Nitrite (as Nitrogen)
Ba	Barium	N-Org	Nitrogen Organic
Be	Beryllium	NR	Not Requested
BOD ₅	Biochemical Oxygen Demand	O&G	Oil and Grease
Br	Bromide	Pb	Lead
Ca	Calcium	Pd	Palladium
Cd	Cadmium	PO ₄ -P	Ortho Phosphate (as Phosphorus)
Cs	Cesium	T-P	Total Phosphorus (as Phosphorus)
Cl	Chloride	Pt	Platinum
Cl ₂	Chlorine residual	Rb	Rubidium
CN	Cyanide	Sb	Antimony
Co	Cobalt	Se	Selenium
COD	Chemical Oxygen Demand	Si	Silicon
Cond	Conductivity	Sn	Tin
Cr	Chromium	SO ₄	Sulfate
Cr ⁶⁺	Chromium, Hexavalent	SS	Settleable Solids
Cu	Copper	Sr	Strontium
D-	Dissolved	TDS	Total Dissolved Solids
DO	Dissolved Oxygen	Te	Tellurium
F	Fluoride	TEP	Toxic Extraction Procedure
Fe	Iron	Ti	Titanium
Ga	Gallium	TKN	Total Kjeldahl Nitrogen
Hard	Hardness (as Calcium Carbonate)	Tl	Thallium
Hg	Mercury	TOC	Total Organic Carbon
I	Iodide	TS	Total Solids
K	Potassium	TSS	Total Suspended Solids
Li	Lithium	Turb	Turbidity
MBAS	Methylene Blue Active Substances (surfactants)	V	Vanadium
Mg	Magnesium	W	Tungsten
		Zn	Zinc
		φ	Phenol

UNITS

g	gram	mL	milliliter
L	liter	ng	nanogram
m ³	cubic meter	pg	picogram
mg	milligram	μg	microgram
		NTU	Nephelometric Turbidity Units
		JTU	Jackson Turbidity Units

Notes

- All concentrations are totals unless otherwise noted. D- indicates dissolved concentration.
- Analyses performed by EPA methods or "Standard Methods for the Examination of Water and Wastewater" 14th Ed. unless otherwise noted.
- Detection limits and sensitivity vary with method of analysis and sample quantity.



PPG INDUSTRIES, INC./P. O. BOX 4026/CORPUS CHRISTI, TEXAS 78408/AREA 512/883-4301

DARRELL M. JONES, Supervisor, Environmental Control
Corpus Christi Plant, Industrial Chemical Division

SEP 8 '77

September 7, 1977

Texas Water Quality Board
1700 North Congress
Stephen F. Austin Building
Box 13246, Capitol Station
Austin, Texas 78711

ATTENTION: Mr. Minor Hibbs
Solid Waste Branch
Central Operations

REFERENCE: Jay Snow's letter of
August 25, 1977 concerning
Request for Reclassification
of Slaker Sand Solid Wastes.

A 3003/

Dear Mr. Hibbs:

We have conducted additional analytical work on slaker sand and slacker sand leachate samples as requested and the determined constituents are tabulated below:

SLAKER SAND (Analysis of R₂O₃ Component)

SiO ₂	Greater than 5%
Iron as Fe	Greater than 5
Aluminum as Al	Greater than 5
Sodium as Na	Greater than 5
Calcium as Ca	0.05 to 0.5
Chromium as Cr	0.005 to 0.05
Copper as Cu	0.005 to 0.05
Titanium as Ti	0.005 to 0.05
Manganese as Mn	0.0005 to 0.005
Magnesium as Mg	0.0005 to 0.005%
Lead as Pb	0.0005 to 0.005
Nickel as Ni	0.0005 to 0.005
Molybdenum as Mo	0.00005 to 0.0005

Mr. Minor Hibbs
Page 2
September 7, 1977

LEACHATE FROM SLAKER SAND

Calcium as Ca	Greater than 20 $\mu\text{g/l}$
Sodium as Na	0.2 to 2
Boron as B	0.02 to 0.2
Silicon as Si	0.02 to 0.2
Iron as Fe	0.02 to 0.2
Magnesium as Mg	0.002 to 0.02
Aluminum as Al	0.002 to 0.02
Copper as Cu	0.002 to 0.02
Chromium as Cr	Less than 0.002

As can be seen from the above data, nothing of a hazardous nature is present in either the slaker sand or in the leachate from slaker sand. I again respectfully request that this waste be reclassified as a Class III waste.

Very truly yours,

Darrell M. Jones

DMJ/dg

cc: D. B. Dailey
Head, Kendrick & Head

CHAIN OF CUSTODY RECORD

[illegible]

Distribution: Original Accompanied the Client; Copy to Coordinator Field Files



Photographer / Witness

James Fendley / Jerome Osheka

Date / Time / Direction

3-28-84 / 1040 / Northwest

Comments Slaker Sand landfill



Photographer / Witness

James Fendley / Jerome Osheka

Date / Time / Direction

3-28-84 / 1055 / Northwest

Comments Drum Storage



Photographer / Witness

James Fendley / Jerome Osheka

Date / Time / Direction

3-28-84 / 1105 / Northwest

Comments Surge Basin
